BIOLOGICAL REVIEWS

of the Cambridge Philosophical Society

Edited
by

W. A. FOSTER

TEN-VOLUME INDEX
VOLUMES 61–70

CAMBRIDGE
UNIVERSITY PRESS

1999

PUBLISHED BY THE CAMBRIDGE UNIVERSITY PRESS
The Edinburgh Building, Cambridge CB2 2RU, United Kingdom
40 West 20th Street, New York, NY 10011–4211, USA
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

© Cambridge Philosophical Society 1999

Printed in the United Kingdom by the University Press, Cambridge

Index to Subjects

An account of the hatching strategies of birds. By G. M. Bond, R. G. Board & V. D. Scott. **63**, 1988, 395–415

Acritarchs: a review. By F. Martin. **68**, 1993, 475–538

Adaptation, Wild mice in the cold: some findings on. By S. A. Barnett & R. G. Dickson. **64**, 1989, 317–340

Adaptations of terrestrial arthropods to the alpine environment. By L. Somme. **64**, 1989, 367–407

Adenosine triphosphatase: an attempt at an integration into the Na^+/K^+ pump mechanism, Role of protein conformation changes and transphosphorylations in the function of Na^+/K^+-transporting. By K. R. H. Repke & R. Schön. **67**, 1992, 31–78

Aerobic and anaerobic scaling in fish. By E. M. Goolish. **66**, 1991, 33–56

Age-related alterations in human chromosome composition and DNA content *in vitro* during senescence. By S. Sen, G. Talukder & A. Sharma. **62**, 1987, 25–44

Ageing by diet, The experimental manipulation of. By A. M. Holehan & B. J. Merry. **61**, 1986, 329–368

Ageing, An attempt at a rational classification of theories of. By Z. A. Medvedev. **65**, 1990, 375–398

AIDS – a basis for a pharmacological approach to treatment, New directions for the anti-retroviral chemotherapy of. By T. Alderson. **68**, 1993, 265–289

Algae: Chlorophyta, The evidence of reproductive mechanisms in fossil dasyclads. By G. F. Elliott. **64**, 1989, 269–275

Algae: its complexity, maintenance and evolution, Alternation of generations in. By D. M. John. **69**, 1994, 275–291

Alpine environment, Adaptations of terrestrial arthropods to the. By L. Somme. **64**, 1989, 367–407

Alternation of generation in flowering plants. The regulation of. By H. G. Dickinson. **69**, 1994, 419–442

Alternation of generation in land plants: new phylogenetic and palaeobotanical evidence. By P. Kenrick. **69**, 1994, 293–330

Alternation of generations in algae: its complexity, maintenance and evolution. By D. M. John. **69**, 1994, 275–291

Alternation of generations in ferns: mechanisms and significance. By E. Sheffield. **69**, 1994, 331–343

Altricial birds, Hatching asynchrony in. By R. D. Magrath. **65**, 1990, 587–622

Anaerobic scaling in fish, Aerobic and. By E. M. Goolish. **66**, 1991, 33–56

Angiosperms, Comparative analyses of ecological characteristics of British. By H. J. Peat & A. H. Fitter. **69**, 1994, 95–115

Animal communities: a continuing controversy, H. A. Gleason's 'individualistic concept' and theory of. By R. P. McIntosh. **70**, 1995, 317–357

Annelida, The spermatozoa of the Polychaeta: an ultrastructural review. By B. G. M. Jamieson & G. W. Rouse. **64**, 1989, 93–157

Antarctic aquatic ecosystems as habitats for phytoplankton. By J. Priddle, I. Hawes, J. C. Ellis-Evans & T. J. Smith. **61**, 1986, 199–238

Anti-retroviral chemotherapy of AIDS – a basis for a pharmacological approach to treatment, New directions for the. By T. Alderson. **68**, 1993, 265–289

Antifungal agents, The complex action of phosphonates as. By D. Guest & B. Grant. **66**, 1991, 159–187

Aphids, The relative importance of short- and long-range movement of flying. By H. D. Loxdale, J. Hardie, S. Halbert, R. Foottit, N. A. C. Kidd & C. I. Carter. **68**, 1993, 291–311

Aplysia myoglobin with unusual properties: another prototype in myoglobin and haemoglobin biochemistry. By K. Shikama & A. Matsuoka. **69**, 1994, 233–251

Aquatic ecosystems as habitats for phytoplankton, Antarctic. By J. Priddle, I. Hawes, J. C. Ellis-Evans & T. J. Smith. **61**, 1986, 199–238

Aquatic pollution: a review, with emphasis on plants as biomonitors, Biological assessment of. By J. Lovett Doust, M. Schmidt & L. Lovett Doust. **69**, 1994, 147–186

Are Mendel's results really too close? By A. W. F. Edwards. **61**, 1986, 295–312

Aridland vegetation and climate: a global perspective, History of. By G. Singh. **63**, 1988, 159–195

Arthropods to the alpine environment, Adaptations of terrestrial. By L. Somme. **64**, 1989, 367–407

Ascomycotina, The control of sexual morphogenesis in the. By P. S. Dyer, D. S. Ingram & K. Johnstone. **67**, 1992, 421–458

Asynchrony in altricial birds, Hatching. By R. D. Magrath. **65**, 1990, 587–622

Atherogenesis?, A pivotal role for. By D. J. Grainger & J. C. Metcalfe. **70**, 1995, 571–596

An attempt at a rational classification of theories of ageing. By Z. A. Medvedev. **65**, 1990, 375–398

Autorotation of a single-winged samara, Study of the vertical. By D. Seter & A. Rosen. **67**, 1992, 175–197

Autoxidation of oxymyoglobin: a meeting point of the stabilization and the activation of molecular oxygen. By K. Shikama. **65**, 1990, 517–527

Avian imprinting: a review, Mechanisms of. By J. J. Bolhuis. **66**, 1991, 303–345

Bacterial pathogenicity, The revival of interest in mechanisms of. By H. Smith. **70**, 1995, 277–316

Bees (Apoidea), The roles of seasonality, host synchrony and behaviour in the evolution and distributions of nest parasites in Hymenoptera (Insecta), with special reference to. By W. T. Wcislo. **62**, 1987, 515–543

Bees, Intraspecific parasitism as an alternative reproductive tactic in nest-building wasps and. By J. Field. **67**, 1992, 79–126

The benefits of mutualism: a conceptual framework. By R. C. Connor. **70**, 1995, 427–457

Biodegradability test methods, Treatability, toxicity and. By A. Kilroy & N. F. Gray. **70**, 1995, 243–275

Bioeconomy of the house mouse, Life history and. By R. J. Berry & F. H. Bronson. **67**, 1992, 519–550

Biological assessment of aquatic pollution: a review, with emphasis on plants as biomonitors. By J. Lovett Doust, M. Schmidt & L. Lovett Doust. **69**, 1994, 147–186

Biological rhythms as organization and information. By D. Lloyd & E. L. Rossi. **68**, 1993, 563–577

The biology of puberty. By F. H. Bronson & E. F. Rissman. **61**, 1986, 157–195

Biomonitors, Biologial assessment of aquatic pollution: a review,

with emphasis on plants as. By J. Lovett Doust, M. Schmidt & L. Lovett Doust. **69**, 1994, 147–186
Bird numbers by territorial behaviour, Experiments on the limitation of. By I. Newton. **67**, 1992, 129–173
Bird song, The singer and the song: on the receiving end of. By P. K. McGregor. **66**, 1991, 57–81
Birds, An account of the hatching strategies of. By G. M. Bond, R. G. Board & V. D. Scott. **63**, 1988, 395–415
Birds in the Bering sea, Scale-dependent spatial dynamics: marine. By D. C. Schneider. **68**, 1993, 579–598
Birds: a critical review of the empirical evidence, Predator vigilance and group size in mammals and. By M. A. Elgar. **64**, 1989, 13–33
Birds: effects on offspring fitness, Intraspecific variation in egg size and egg composition in. By T. D. Williams. **69**, 1994, 35–59
Birds, The evolution of reversed sexual dimorphism in size in monogamous species of. By H. C. Mueller. **65**, 1990, 553–585
Birds, Hatching asynchrony in altricial. By R. D. Magrath. **65**, 1990, 587–622
Birds: the importance of developmental constraints, Differences in the foraging of juvenile and adult. By K. Marchetti & T. Price. **64**, 1989, 51–70
Birds, Potential mechanisms of sex ratio adjustment in mammals and. By S. Krackow. **70**, 1995, 225–241
Birds, Sunset and the orientation behaviour of migrating. By F. R. Moore. **62**, 1987, 65–86
Bone resorption, Cellular biology of. By M. Zaidi, A. S. M. Towhidul Alam, V. S. Shankar, B. E. Bax, C. M. R. Bax, B. S. Moonga, P. J. R. Bevis, C. Stevens, D. R. Blake, M. Pazianas & C. L. H. Huang. **68**, 1993, 197–264
Bone transformation': a case of crying Wolff?, The 'law of. By J. E. A. Bertram & S. M. Swartz. **66**, 1991, 245–273
Bryozoa, Colony form and the exploitation of spatial refuges by encrusting. By J. D. D. Bishop. **64**, 1989, 197–218
Ca^{2+} fluxes by Ca^{2+}-mobilizing agonists in rat liver, Second messengers and the regulation of. By J. G. Altin & F. L. Bygrave. **63**, 1988, 551–611
Calcium in the control of mitosis and ooplasmic movements in insect eggs: a working hypothesis, The role of metabolism and. By J. M. van der Meer. **63**, 1988, 109–157
Cambrian trilobites, The role of heterochrony in the evolution of. By K. J. McNamara. **61**, 1986, 121–156
Cancer chemotherapy – poly(ADP-ribosylation) processing and polyisoprene metabolism, New targets for. By T. Alderson. **65**, 1990, **65**, 1990, 623–641
Cancer chemotherapy, Ribonucleotide metabolism – fresh approaches to viral and. By T. Alderson. **64**, 1989, 159–196
Cancer, Differentiation of neuroblastoma cells: a useful model for neurobiology and. By K. N. Prasad. **66**, 1991, 431–451
Carbon and nitrogen levels in soil, A comparative assessment of factors which influence microbial biomass. By D. A. Wardle. **67**, 1992, 321–358
Cell adhesion molecules: a unifying approach to topographic biology. By M. L. Turner. **67**, 1992, 359–377
Cell death: concept, mechanism and control, Programmed. By S. Sen. **67**, 1992, 287–319
Cell selection in development. By J. Michaelson. **62**, 1987, 115–139
Cells and their extracellular matrix, On the generation of form by the continuous interactions between. By L. Ettinger & F. Doljanski. **67**, 1992, 459–489
Cellular biology of bone resorption. By M. Zaidi, A. S. M. Towhidul Alam, V. S. Shankar, B. E. Bax, C. M. R. Bax, B. S. Moonga, P. J. R. Bevis, C. Stevens, D. R. Blake, M. Pazianas & C. L. H. Huang. **68**, 1993, 197–264
Central nervous system: phylogeny, ontogeny, and mechanisms, Regeneration in the vertebrate. By A. J. Larner, A. R. Johnson & R. J. Keynes. **70**, 1995, 597–619
Character diagnosis, fossils and the origin of tetrapods. By A. L. Panchen & T. R. Smithson. **62**, 1987, 341–438
Chemical communication in insect communities: a guide to insect pheronomes with special emphasis on social insects. By M. F. Ali & E. D. Morgan. **65**, 1990, 227–247
Chemical ecology of locusts. Pheromones and. By J. A. Byers. **66**, 1991, 347–378
Chemotherapy of AIDS – a basis for a pharmacological approach to treatment, New directions for the anti-retroviral. By T. Alderson. **68**, 1993, 265–289
Chemotherapy, Ribonucleotide metabolism – fresh approaches to viral and cancer. By T. Alderson. **64**, 1989, 159–196
Chlorophyta, The evidence of reproductive mechanisms in fossil dasyclads. By G. F. Elliott. **64**, 1989, 269–275
Chromosome composition and DNA content *in vitro* during senescence, Age-related alterations in human. By S. Sen, G. Talukder & A. Sharma. **62**, 1987, 25–44
The chromosomes of salmonid fishes. By S. E. Hartley. **62**, 1987, 197–214
Ciliated protozoa: overlap of asexual and sexual cycles during conjugation, Developmental heterochrony in. By S. F. Ng. **65**, 1990, 19–101
Climate: a global perspective, History of aridland vegetation and. By G. Singh. **63**, 1988, 159–195
Cold tolerance of microarthropods. By R. J. C. Cannon & W. Block. **63**, 1988, 23–77
Cold tolerance strategies in nematodes. By D. A. Wharton. **70**, 1995, 161–185
Colon tumours, and its significance in diagnostic practice, Variability of neoplastic parameters in. By I. Zusman. **70**, 1995, 107–160
Colony form and the exploitation of spatial refuges by encrusting Bryozoa. By J. D. D. Bishop. **64**, 1989, 197–218
Colour pattern and striped/non-striped polymorphism in snakes (Reptilia: Ophidia), The striped. By M. Wolf & Y. L. Werner. **69**, 1994, 599–610
Colour vision among the mammals, The distribution and nature of. By G. H. Jacobs. **68**, 1993, 413–471
Colour vision of insect pollinators. The ecology of flower colours and the natural. By R. Menzel & A. Shmida. **68**, 1993, 81–120
Comparative analyses of ecological characteristics of British angiosperms. by H. J. Peat & A. H. Fitter. **69**, 1994, 95–115
A comparative assessment of factors which influence microbial biomass carbon and nitrogen levels in soil. By D. A. Wardle. **67**, 1992, 321–358
Competition in macroevolution, Progress and. By M. J. Benton. **62**, 1987, 305–338
The complex action of phosphonates as antifungal agents. By D. Guest & B. Grant. **66**, 1991, 159–187
Complex morphological structures, A model for development and evolution of. By W. R. Atchley & B. K. Hall. **66**, 1991, 101–157
Conjugation, Developmental heterochrony in ciliated protozoa: overlap of asexual and sexual cycles during. By S. F. Ng. **65**, 1990, 19–101

Consciousness: William James's unresolved problem, The evolution of. By I. M. Glynn. **68**, 1993, 599–616
A consideration of the genetic control of species specificity in fungal plant pathogens and its relevance to a comprehension of the underlying mechanisms. By A. C. Newton & I. R. Crute. **64**, 1989, 35–50
Control of electron flux through the respiratory chain in mitochondria and cells. By M. D. Brand & M. P. Murphy. **62**, 1987, 141–193
Control of gene activity during development, Mechanisms for the. By R. Holliday. **65**, 1990, 431–471
Control of host gene expression, The phytoalexin response: elicitation, signalling and. By R. A. Dixon., **61**, 1986, 239–291
The control of sexual morphogenesis in the Ascomycotina. By P. S. Dyer, D. S. Ingram & K. Johnstone. **67**, 1992, 421–458
A coordinate-free approach to the analysis of growth patterns: models and theoretical considerations. by J. T. Richtsmeier & S. Lele. **68**, 1993, 381–411
Copulatory courtship and cryptic female choice in insects. W. G. Eberhard. **66**, 1991, 1–31
Cortical cells in motor organs of sensitive plants, Structural and ultrastructural features of. By P. Fleurat-Lessard. **63**, 1988, 1–22
The cortical magnification factor and photopic vision. By J. S. Pointer. **61**, 1986, 97–119
Cost of growth in cells and organisms: general rules and comparative aspects. By W. Wieser. **69**, 1994, 1–33
Courtship and cryptic female choice in insects, Copulatory. By W. G. Eberhard. **66**, 1991, 1–31
Crocodilians, Osmoregulation in. By L. E. Taplin. **63**, 1988, 337–377
Crop genetic resources, Introgression and incorporation. Strategies for the use of. By N. W. Simmonds. **68**, 1993, 539–562
Crops, Genetics of horizontal resistance to diseases of. By N. W. Simmonds. **66**, 1991, 189–241
Crustacea, Nitrogen excretion in marine and fresh-water. by M. Regnault. **62**, 1987, 1–24
Crustacea, Sex determination in. by J. J. Legrand, E. Legrand-Hamelin & P. Juchault. **62**, 1987, 439–470
Crustacean gastrointestinal tract, Nutrient transport by the: recent advances with vesicles techniques. By G. A. Ahearn. **62**, 1987, 45–63
Cryptic female choice in insects, Copulatory courtship and. By W. G. Eberhard. **66**, 1991, 1–31
Cryptobiosis in Tardigrada. By J. C. Wright, P. Westh & H. Ramløv. **67**, 1992, 1–29
Cytoplasmic sex ratio distorters in animals, The incidences, mechanisms and evolution of. By L. D. Hurst. **68**, 1993, 121–194
Dasyclads (Algae: Chlorophyta), The evidence of reproductive mechanisms in fossil. By G. F. Elliott. **64**, 1989, 269–275
Decomposition of organic matter, The effect of added nitrogen on the rate of. By K. Fog. **63**, 1988, 433–462
Dentitions, with special reference to limiting factors, On the means whereby mammals achieve increased functional durability of their. By C. M. Janis & M. Fortelius. **63**, 1988, 197–230
Development, Cell selections in. By J. Michaelson. **62**, 1987, 115–139
Development and evolution of complex morphological structures, A model for. By W. R. Atchley & B. K. Hall. **66**, 1991, 101–157
Development and evolutionary origins of vertebrate skeletogenic and odontogenic tissues. By M. M. Smith & B. K. Hall. **65**, 1990, 277–373
Development, Mechanisms for the control of gene activity during. By R. Holliday. **65**, 1990, 431–471
Developmental constraints, Differences in the foraging of juvenile and adult birds: the importance of. By K. Marchetti & T. Price. **64**, 1989, 51–70
Developmental heterochrony in ciliated protozoa: overlap of asexual and sexual cycles during conjugation. By S. F. Ng. **65**, 1990, 19–101
Developmental processes, developmental sequences and early vertebrate phylogeny. By R. M. Langille & B. K. Hall. **64**, 1989, 73–91
Diet, The experimental manipulation of ageing by. By A. M. Holehan & B. J. Merry. **61**, 1986, 329–368
Differences in the foraging of juvenile and adult birds: the importance of developmental constraints. By K. Marchetti & T. Price. **64**, 1989, 51–70
Differential fitness returns in relation to spatial position in groups. By J. Krause. **69**, 1994, 187–206
Differentiation of neuroblastoma cells: a useful model for neurobiology and cancer. By K. N. Prasad. **66**, 1991, 431–451
Diseases of crops, Genetics of horizontal resistance to. By N. W. Simmonds. **66**, 1991, 189–241
The distribution and nature of colour vision among the mammals. By G. H. Jacobs. **68**, 1993, 413–471
DNA content *in vitro* during senescence, Age-related alterations in human chromosome composition and. By S. Sen, G. Talukder & A. Sharma. **62**, 1987, 25–44
Do insects really have a homeostatic hypotrehalosaemic hormone? By J. A. Veenstra. **64**, 1989, 305–316
Dopamine systems, The functional role of mesotelencephalic. By S. B. Dunnett & T. W. Robbins. **67**, 1992, 491–518
Early trends in the evolution of tribosphenic molars. By P. M. Butler. **65**, 1990, 529–552
Ecological characteristics of British angiosperms, Comparative analyses of. By H. J. Peat & A. H. Fitter. **69**, 1994, 95–115
Ecology and physiology of hibernation and overwintering among freshwater fishes, turtles and snakes. By G. R. Ultsch. **64**, 1989, 435–516
The ecology of flower colours and the natural colour vision of insect pollinators. By R. Menzel & A. Shmida. **68**, 1993, 81–120
The effect of added nitrogen on the rate of decomposition of organic matter. By K. Fog. **63**, 1988, 433–462
Effects of green light on biological systems. By R. M. Klein. **67**, 1992, 199–284
Egg size and egg composition in birds: effects on offspring fitness, Intraspecific variation in. By T. D. Williams. **69**, 1994, 35–59
Electron flux through the respiratory chain in mitochondria and cells, Control of. By M. D. Brand & M. P. Murphy. **62**, 1987, 141–193
Elicitation, signalling and control of host gene expression, The phytoalexin response. By R. A. Dixon. **61**, 1986, 239–291
Embryonic resistance to chemical and physical factors: manifestation, mechanism, role in reproduction and in adaptation to ecology. By I. Zusman & A. Ornoy. **65**, 1990, 1–18
Environmental sex determination in animals, Sex ratios and conditions required for. By H. Korpelainen. **65**, 1990, 147–184

Epigenetic measure of stress, Fluctuating asymmetry: an. By P. A. Parsons. **65**, 1990, 131–145
Eutherian spermatozoa and underlying selective forces: female selection and sperm competition, The evolution of. By E. R. S. Roldan, M. Gomendio & A. D. Vitullo. **67**. 1992, 551–593
The evidence of reproductive mechanisms in fossil dasyclads (Algae: Chlorophyta). By G. F. Elliott. **64**, 1989, 269–275
Evolution of complex morphological structures, A model for development and. By W. R. Atchley & B. K. Hall. **66**, 1991, 101–157
The evolution of consciousness: William James's unresolved problem. By I. M. Glynn. **68**, 1993, 599–616
The evolution of eutherian spermatozoa and underlying selective forces: female selection and sperm competition. By E. R. S. Roldan, M. Gomendio & A. D. Vitullo. **67**, 1992, 551–593
The evolution of heteromorphic sex chromosomes. By E. Jablonka & M. J. Lamb. **65**, 1990, 249–276
Evolution of monogamy in termites. By C. A. Nalepa & S. C. Jones. **66**, 1991, 83–97
The evolution of reversed sexual dimorphism in size in monogamous species of birds. By H. C. Mueller. **65**, 1990, 553–585
The evolution of suspension feeding in gastropods. By C. H. Declerck. **70**, 1995, 549–569
Evolution of tribosphenic molars, Early trends in the. By P. M. Butler. **65**, 1990, 529–552
The evolution of vascular plants in relation to quantitative functioning of dead water-conducting cells and stomata. By J. A. Raven. **68**, 1993, 337–363
Evolutionary change: from living organisms to fossils, Stress, extinctions and. By P. A. Parsons. **68**, 1993, 313–333
Evolutionary-developmental change in the growth architecture of fossil rhizomorphic lycopsids: scenarios constructed on cladistic foundations. By R. M. Bateman. **69**, 1994, 527–597
Evolutionary origins of vertebrate skeletogenic and odontogenic tissues, Development and. By M. M. Smith & B. K. Hall. **65**, 1990, 277–373
Excretion in marine and fresh-water Cructacea, Nitrogen. By M. Regnault. **62**, 1987, 1–24
The experimental manipulation of ageing by diet. By A. M. Holehan & B. J. Merry. **61**, 1986, 329–368
Experiments on the limitation of bird numbers by territorial behaviour. By I. Newton. **67**, 1992, 129–173
Extinctions and evolutionary change: from living organisms to fossils, Stress. By P. A. Parsons. **68**, 1993, 313–333
Extinctions in the late Pleistocene of northern Eurasia and North America, Mammalian. By A. J. Stuart. **66**, 1991, 453–562
Extracellular matrix, On the generation of form by the continuous interactions between cells and their. By L. Ettinger & F. Doljanski. **67**. 1992, 459–489
Extracellular matrix proteins, Molecular biology of the. By A. R. Kornblihtt & A. Gutman. **63**, 1988, 465–507
Fecundity in insects, Mating frequency and. By M. Ridley. **63**, 1988, 509–549
Female choice in insects, Copulatory courtship and cryptic. By W. G. Eberhard. **66**, 1991, 1–31
Ferns: mechanisms and significance, Alternation of generations in. By E. Sheffield. **69**, 1994, 331–343
Filter-feeding in marine macro-invertebrates: pump characteristics, modelling and energy cost. By H. U. Riisgård & P. S. Larsen. **70**, 1995, 67–106
Filtration nephridia, The functional organization of. By E. E. Ruppert & P. R. Smith. **63**, 1988, 231–258
Fish, Aerobic and anaerobic scaling in. By E. M. Goolish. **66**, 1991, 33–56
Fitness returns in relation to spatial position in groups, Differential. By J. Krause. **69**, 1994, 187–206
Flight, with notes on vortex wakes, On the reconstruction of pterosaurs and their manner of. By C. J. Pennycuick. **63**, 1988, 299–331
Flora Europaea Project, The taxonomy of European vascular plants: a review of the past half-century and the influence of the. By S. M. Walters. **70**, 1995, 361–374
Flower colours and the natural colour vision of insect pollinators, The ecology of. By R. Menzel & A. Shmida. **68**, 1993, 81–120
Flowering plants, The regulation of alternation of generation in. By H. G. Dickinson. **69**, 1994, 419–442
Fluctuating asymmetry: an epigenetic measure of stress. By P. A. Parsons. **65**, 1990, 131–145
Foraging of juvenile and adult birds: the importance of developmental constraints, Differences in the. By K. Marchetti & T. Price. **64**, 1989, 51–70
Fossil dasyclads (Algae: Chlorophyta), The evidence of reproductive mechanisms in. By G. F. Elliott. **64**, 1989, 269–275
Fossil rhizomorphic lycopsids: scenarios constructed on cladistic foundations, Evolutionary-developmental change in the growth architecture of. By R. M. Bateman. **69**, 1994, 527–597
Fossils and the origin of tetrapods, Character diagnosis. By A. L. Panchen & T. R. Smithson. **62**, 1987, 341–438
Fossils, Stress, extinctions and evolutionary change: from living organisms to. By P. A. Parsons. **68**, 1993, 313–333
Freshwater fishes, turtles and snakes, Ecology and physiology of hibernation and overwintering among. By G. R. Ultsch. **64**, 1989, 435–516
The functional organization of filtration nephridia. By E. E. Ruppert & P. R. Smith. **63**, 1988, 231–258
The functional role of mesotelencephalic dopamine systems. By S. B. Dunnett & T. W. Robbins. **67**, 1992, 491–518
The fundamental theorem of natural selection. By A. W. F. Edwards. **69**, 1994, 443–474
Fungal plant pathogens and its relevance to a comprehension of the underlying mechanisms, A consideration of the genetic control of species specificity in. By A. C. Newton & I. R. Crute. **64**, 1989, 35–50
Fungi with particular reference to their ecology, Nematophagous. By N. F. Gray. **62**, 1987, 245–304
Fungi, herbivorous insects and their host plants, Three-way interactions between plant pathogenic. By P. E. Hatcher. **70**, 1995, 639–694
Fungi, Translocation of solutes in. By D. H. Jennings. **62**, 1987, 215–243
Gastrointestinal tract, recent advances with vesicle techniques, Nutrient transport by the crustacean. By G. A. Ahearn. **62**, 1987, 45–63
Gastropods, The evolution of suspension feeding in. By C. H. Declerck. **70**, 1995, 549–569
Gene activity during development, Mechanisms for the control of. By R. Holliday. **65**, 1990, 431–471
Gene expression, The phytoalexin response: elicitation, signalling and control of host. By R. A. Dixon. **61**, 1986, 239–291
Genetic control of species specificity in fungal plant pathogens

and its relevance to a comprehension of the underlying mechanisms, A consideration of the. By A. C. Newton & I. R. Crute. **64**, 1989, 35–50
Genetic resources, Introgression and incorporation. Strategies for the use of crop. By N. W. Simmonds. **68**, 1993, 539–562
Genetics of horizontal resistance to diseases of crops. By N. W. Simmonds. **66**, 1991, 189–241
Genotypes in plant breeding populations?, How frequent are superior. By N. W. Simmonds. **64**, 1989, 341–365
Geographical ranges of species, Patterns in the. By K. J. Gaston. **65**, 1990, 105–129
Green light on biological systems, Effects of. By R. M. Klein, **67**, 1992, 199–284
Group size in mammals and birds: a critical review of the empirical evidence, Predator vigilance and. By M. A. Elgar. **64**, 1989, 13–33
Growth architecture of fossil rhizomorphic lycopsids: scenarios constructed on cladistic foundations, Evolutionary-developmental change in the. By R. M. Bateman. **69**, 1994, 527–597
Growth in cells and organisms: general rules and comparative aspects, Cost of. By W. Wieser. **69**, 1994, 1–33
Growth patterns: models and theoretical considerations, A coordinate-free approach to the analysis of. By J. T. Richtsmeier & S. Lele. **68**, 1993, 381–411
Growth in pinnipeds. By I. A. McLaren. **68**, 1993, 1–79
H. A. Gleason's 'individualistic concept' and theory of animal communities; a continuing controversy. By R. P. McIntosh. **70**, 1995, 317–357
Haemoglobin biochemistry, *Aplysia* myoglobin with unusual properties: another prototype in myoglobin and. By K. Shikama & A. Matsuoka. **69**, 1994, 233–251
Handicap principle: reviewing the evidence, Sexual selection, honest advertisement and the. By R. A. Johnstone. **70**, 1995, 1–65
Hatching asynchrony in altricial birds. By R. D. Magrath. **65**, 1990, 587–622
Hatching strategies of birds, An account of the. By G. M. Bond, R. G. Board & V. D. Scott. **63**, 1988, 395–415
Herbicide selectivity. By D. E. Hathway. **61**, 1986, 435–486
Heterochrony in ciliated protozoa: overlap of asexual and sexual cycles during conjugation, Developmental. By S. F. Ng. **65**, 1990, 19–101
Heterochrony in the evolution of Cambrian trilobites, The role of. By K. J. McNamara. **61**, 1986, 121–156
Heteromorphic sex chromosomes, The evolution of. By E. Jablonka & M. J. Lamb. **65**, 1990, 249–276
Heterospory: the most iterative key innovation in the evolutionary history of the plant kingdom. By R. M. Bateman & W. A. Dimichele. **69**, 1994, 345–417
Hexapoda and ovarian metamerism, Phylogeny of the. By P. Stýs, J. Zrzavy & F. Weyda. **68**, 1993, 365–379
Hexapods, Ovariole types and the phylogeny of. By P. Stýs & S. Biliński. **65**, 1990, 401–429
Hibernation and overwintering among freshwater fishes, turtles and snakes, Ecology and physiology of. By G. R. Ultsch. **64**, 1989, 435–516
Histological staining of lipids for the light and electron microscope. By V. B. Wigglesworth. **63**, 1988, 417–431
Historical burden in systematics and the interrelationships of "parareptiles". By M. S. Y. Lee. **70**, 1995, 459–547
History of aridland vegetation and climate: a global perspective. By G. Singh. **63**, 1988, 159–195
Homeostatic hypotrehalosaemic hormone?, Do insects really have a. By J. A. Veenstra. **64**, 1989, 305–316
Honest advertisement and the handicap principle: reviewing the evidence, Sexual selection. By R. A. Johnstone. **70**, 1995, 1–65
Horizontal resistance to diseases of crops, Genetics of. By N. W. Simmonds. **66**, 1991, 189–241
Horse diversity through the ages. By A. Forsten. **64**, 1989, 279–304
Host-feeding strategies in hymenopteran parasitoids. By M. A. Jervis & N. A. C. Kidd. **61**, 1986, 395–434
Host plants, Three-way interactions between plant pathogenic fungi, herbivorous insects and their. By P. E. Hatcher. **70**, 1995, 639–694
Host synchrony and behaviour in the evolution and distributions of nest parasites in Hymenoptera (Insecta), with special reference to bees (Apoidea), The roles of seasonality. By W. T. Wcislo. **62**, 1987, 515–543
House mouse, Life history and bioeconomy of the. By R. J. Berry & F. H. Bronson. **67**, 1992, 519–550
How frequent are superior genotypes in plant breeding populations? By N. W. Simmonds. **64**, 1989, 341–365
Human chromosome composition and DNA content *in vitro* during senescence, Age-related alterations in. By S. Sen, G. Talukder & A. Sharma. **62**, 1987, 25–44
Hymenoptera (Insecta), with special reference to bees (Apoidea), The roles of seasonality, host synchrony and behaviour in the evolution and distributions of nest parasites in. By W. T. Wcislo. **62**, 1987, 515–543
Hymenopteran parasitoids, Host-feeding strategies in. By M. A. Jervis & N. A. C. Kidd. **61**, 1986, 395–434
Hypotrehalosaemic hormone?, Do insects really have a homeostatic. By J. A. Veenstra. **64**, 1989, 305–316
Implantation, menstruation and inflammation. By C. A. Finn. **61**, 1986, 313–328
The incidences, mechanisms and evolution of cytoplasmic sex ratio distorters in animals. By L. D. Hurst. **68**, 1993, 121–194
Individualistic concept and theory of animal communities: a continuing controversy, H. A. Gleason's. By R. P. McIntosh. **70**, 1995, 317–357
Inflammation, Implantation, menstruation and. By C. A. Finn. **61**, 1986, 313–328
The influence of natural and experimental high O_2 concentrations on O_2-evolving phototrophs. By J. A. Raven, A. M. Johnston, R. Parsons & J. Kübler. **69**, 1994, 61–94
Insect communities: a guide to insect pheromones with special emphasis on social insects, Chemical communication in. By M. F. Ali & E. D. Morgan. **65**, 1990, 227–247
Insect eggs: a working hypothesis, The role of metabolism and calcium in the control of mitosis and ooplasmic movements in. By J. M. van der Meer. **63**, 1988, 109–157
Insect pheronomes with special emphasis on social insects, Chemical communication in insect communities: a guide to. By M. F. Ali & E. D. Morgan. **65**, 1990, 227–247
Insect pollinators, The ecology of flower colours and the natural colour vision of. By R. Menzel & A. Shmida. **68**, 1993, 81–120
Insects and their host plants, Three-way interactions between plant pathogenic fungi, herbivorous. By P. E. Hatcher. **70**, 1995, 639–694
Insects, Copulatory courtship and cryptic female choice in. By W. G. Eberhard. **66**, 1991, 1–31

Insects, Mating frequency and fecundity in. By M. Ridley. **63**, 1988, 509–549
Insects, Mycetocyte symbiosis in. By A. E. Douglas. **64**, 1989, 409–434
Intraspecific parasitism as an alternative reproductive tactic in nest-building wasps and bees. By J. Field. **67**, 1992, 79–126
Intraspecific variation in egg size and egg composition in birds: effects on offspring fitness. By T. D. Williams. **69**, 1994, 35–59
Introduction (to special issue: The regulation of alternation of generations in plants). By P. R. Bell. **69**, 1994, 259–262
Introgression and incorporation. Strategies for the use of crop genetic resources. By N. W. Simmonds. **68**, 1993, 539–562
Invasion potential, Plant invasion windows: a time-based classification of. By I. M. Johnstone. **61**, 1986, 369–394
Is greater female longevity a general finding among animals? By D. W. E. Smith. **64**, 1989, 1–12
Kin bias in social behaviour, Of mice and kin: the functional significance of. By C. J. Barnard, J. L. Hurst & P. Aldhous. **66**, 1991, 379–430
Kin recognition: functions and mechanisms a review. By P. G. Hepper. **61**, 1986, 63–93
Land plants: new phylogenetic and palaeobotanical evidence, Alternation of generation in. By P. Kenrick. **69**, 1994, 293–330
Lateral line, Structure and development of the. By J. H. S. Blaxter. **62**, 1987, 471–514
The 'law of bone transformation': a case of crying Wolff? By J. E. A. Bertram & S. M. Swartz. **66**, 1991, 245–273
Learning in animals: categories and mechanisms, Social. By C. M. Heyes. **69**, 1994, 207–231
Life history and bioeconomy of the house mouse. By R. J. Berry & F. H. Bronson. **67**, 1992, 519–550
Light absorption by plants and its implications for photosynthesis. By B. A. Osborne & J. A. Raven. **61**, 1986, 1–61
Lipids for the light and electron microscope, Histological staining of. By V. B. Wigglesworth. **63**, 1988, 417–431
Locusts, Pheromones and chemical ecology of. By J. A. Byers. **66**, 1991, 347–378
Longevity a general finding among animals?, Is greater female. By D. W. E. Smith. **64**, 1989, 1–12
Lycopsids: scenarios constructed on cladistic foundations, Evolutionary-developmental change in the growth architecture of fossil rhizomorphic. By R. M. Bateman. **69**, 1994, 527–597
Macro-invertebrates: pump characteristics, modelling and energy cost, Filter-feeding in marine. By H. U. Riisgård & P. S. Larsen. **70**, 1995, 67–106
Macroevolution, Progress and competition in. By M. J. Benton. **62**, 1987, 305–338
Malaria parasites, Sex determination and sex differentiation in. By A. W. C. A. Cornelissen. **63**, 1988, 379–394
Mammalian extinctions in the late Pleistocene of northern Eurasia and North America. By A. J. Stuart. **66**, 1991, 453–562
Mammals achieve increased functional durability of their dentitions, with special reference to limiting factors, On the means whereby. By C. M. Janis & M. Fortelius. **63**, 1988, 197–230
Mammals and birds, Potential mechanisms of sex ratio adjustment in. By S. Krackow. **70**, 1995, 225–241
Mammals and birds: a critical review of the empirical evidence, Predator vigilance and group size in. By M. A. Elgar. **64**, 1989, 13–33
Mammals, Population cycles in northern small. By K. Norrdahl. **70**, 1995, 621–637
Marine birds in the Bering sea, Scale-dependent spatial dynamics. By D. C. Schneider. **68**, 1993, 579–598
Marine macro-invertebrates: pump characteristics, modelling and energy cost, Filter-feeding in. By H. U. Riisgård & P. S. Larsen. **70**, 1995, 67–106
Mating frequency and fecundity in insects. By M. Ridley. **63**, 1988, 509–549
Mechanisms for the control of gene activity during development. By R. Holliday. **65**, 1990, 431–471
Mechanisms of avian imprinting: a review. By J. J. Bolhuis. **66**, 1991, 303–345
Mendel's results really too close?, Are. By A. W. F. Edwards. **61**, 1986, 295–312
Menstruation and inflammation, Implantation. By C. A. Finn. **61**, 1986, 313–328
Mesotelencephalic dopamine systems, The functional role of. By S. B. Dunnett & T. W. Robbins. **67**, 1992, 491–518
Metabolism and calcium in the control of mitosis and ooplasmic movements in insect eggs: a working hypothesis, The role of. By J. M. van der Meer. **63**, 1988, 109–157
Mice and kin: the functional significance of kin bias in social behaviour. By C. J. Barnard, J. L. Hurst & P. Aldhous. **66**, 1991, 379–430
Mice in the cold: some findings on adaptation, Wild. By S. A. Barnett & R. G. Dickson. **64**, 1989, 317–340
Microarthropods, Cold tolerance of. By R. J. C. Cannon & W. Block. **63**, 1988, 23–77
Microbial biomass carbon and nitrogen levels in soil, A comparative assessment of factors which influence. By D. A. Wardle. **67**, 1992, 321–358
Migrating birds, Sunset and the orientation behaviour of. By F. R. Moore. **62**, 1987, 65–86
Mitochondria and cells, Control of electron flux through the respiratory chain in. By M. D. Brand & M. P. Murphy. **62**, 1987, 141–193
Mitosis and ooplasmic movements in insect eggs: a working hypothesis, The role of metabolism and calcium in the control of. By J. M. van der Meer. **63**, 1988, 109–157
A model for development and evolution of complex morphological structures. By W. R. Atchley & B. K. Hall. **66**, 1991, 101–157
Molecular biology of the extracellular matrix proteins. By A. R. Kornblihtt & A. Gutman. **63**, 1988, 465–507
Monogamous species of birds, The evolution of reversed sexual dimorphism in size in. By H. C. Mueller. **65**, 1990, 553–585
Monogamy in termites, Evolution of. By C. A. Nalepa & S. C. Jones. **66**, 1991, 83–97
Morphogenesis in plants, Rhythm, periodicity and polarity as bases for. By P. W. Barlow. **69**, 1994, 475–525
Morphological structures, A model for development and evolution of complex. By W. R. Atchley & B. K. Hall. **66**, 1991, 101–157
Motor organs of sensitive plants, Structural and ultrastructural features of cortical cells in. By P. Fleurat-Lessard. **63**, 1988, 1–22
Mutualism: a conceptual framework, The benefits of. By R. C. Connor. **70**, 1995, 427–457

Mycetocyte symbiosis in insects. By A. E. Douglas. **64**, 1989, 409–434
Myoglobin with unusual properties: another prototype in myoglobin and haemoglobin biochemistry, *Aplysia*. By K. Shikama & A. Matsuoka. **69**, 1994, 233–251
Na^+/K^+ pump mechanism, Role of protein conformation changes and transphosphorylations in the function of Na^+/K^+-transporting adenosine triphosphatase: an attempt at an integration into the. By K. R. H. Repke & R. Schön. **67**, 1992, 31–78
Natural selection, The fundamental theorem of. By A. W. F. Edwards. **69**, 1994, 443–474
Nematodes, Cold tolerance strategies in. By D. A. Wharton. **70**, 1995, 161–185
Nematophagous fungi with particular reference to their ecology. By N. F. Gray. **62**, 1987, 245–304
Neoplastic parameters in colon tumours, and its significance in diagnostic practice, Variability of. By I. Zusman. **70**, 1995, 107–160
Nephridia, The functional organization of filtration. By E. E. Ruppert & P. R. Smith. **63**, 1988, 231–258
Nest parasites in Hymenoptera (Insecta), with special reference to bees (Apoidea), The roles of seasonality, host synchrony and behaviour in the evolution and distributions of. By W. T. Wcislo. **62**, 1987, 515–543
Neuroblastoma cells: a useful model for neurobiology and cancer, Differentiation of. By K. N. Prasad. **66**, 1991, 431–451
New directions for the anti-retroviral chemotherapy of AIDS – a basis for a pharmacological approach to treatment. By T. Alderson. **68**, 1993, 265–289
New targets for cancer chemotherapy – poly(ADP-ribosylation) processing and polyisoprene metabolism. By T. Alderson. **65**, 1990, 623–641
Nitrogen excretion in marine and fresh-water Crustacea. By M. Regnault. **62**, 1987, 1–24
Nitrogen levels in soil, A comparative assessment of factors which influence microbial biomass carbon and. By D. A. Wardle. **67**, 1992, 321–358
Nitrogen on the rate of decomposition of organic matter, The effect of added. By K. Fog. **63**, 1988, 433–462
Nocturnal habits in waterfowl, The occurrence and adaptive significance of. By R. McNeil, P. Drapeau & J. D. Goss-Custard. **67**, 1992, 381–419
Nuclear DNA during plant development: a critical analysis, Quantitative variations of. By P. Bassi. **65**, 1990, 185–225
Nutrient transport by the crustacean gastrointestinal tract: recent advances with vesicle techniques. By G. A. Ahearn. **62**, 1987, 45–63
O_2-evolving phototrophs, The influence of natural and experimental high O_2 concentrations on. By J. A. Raven, A. M. Johnston, R. Parsons & J. Kübler. **69**, 1994, 61–94
The occurrence and adaptive significance of nocturnal habits in waterfowl. By R. McNeil, P. Drapeau & J. D. Goss-Custard. **67**, 1992, 381–419
The occurrence and functions of ultradian rhythms. By D. Lloyd & M. Stupfel. **66**, 1991, 275–299
Odontogenic tissues, Development and evolutionary origins of vertebrate skeletogenic and. By M. M. Smith & B. K. Hall. **65**, 1990, 277–373
Of mice and kin: the functional significance of kin bias in social behaviour. By C. J. Barnard, J. L. Hurst & P. Aldhous. **66**, 1991, 379–430
Offspring fitness, Intraspecific variation in egg size and egg composition in birds: effects on. By T. D. Williams. **69**, 1994, 35–59
On the generation of form by the continuous interactions between cells and their extracellular matrix. By L. Ettinger & F. Doljanski. **67**, 1992, 459–489
On the means whereby mammals achieve increased functional durability of their dentitions, with special reference to limiting factors. By C. M. Janis & M. Fortelius. **63**, 1988, 197–230
On the reconstruction of pterosaurs and their manner of flight, with notes on vortex wakes. By C. J. Pennycuick. **63**, 1988, 299–331
Ooplasmic movements in insect eggs: a working hypothesis, The role of metabolism and calcium in the control of mitosis and. By J. M. van der Meer. **63**, 1988, 109–157
Operation of the purine nucleotide cycle in animal tissues. By A. van Waarde. **63**, 1988, 259–298
Orientation behaviour of migrating birds, Sunset and the. By F. R. Moore. **62**, 1987, 65–86
The origin of the land plant sporophyte: an interpolational scenario. By A. R. Hemsley. **69**, 1994, 263–273
The origin of the spinning apparatus in spiders. By J. W. Shultz. **62**, 1987, 89–113
Origin of tetrapods, Character diagnosis, fossils and the. By A. L. Panchen & T. R. Smithson. **62**, 1987, 341–438
Origins of vertebrates: analysis by means of scenarios, Stages in the. By C. Gans. **64**, 1989, 221–268
Osmoregulation in crocodilians. By L. E. Taplin. **63**, 1988, 337–377
Ovarian metamerism, Phylogeny of the hexapoda and. By P. Stŷs, J. Zrzavy & F. Weyda. **68**, 1993, 365–379
Ovariole types and the phylogeny of hexapods. By P. Stŷs & S. Biliński. **65**, 1990, 401–429
Overwintering among freshwater fishes, turtles and snakes, Ecology and physiology of hibernation and. By G. R. Ultsch. **64**, 1989, 435–516
Oxymyoglobin: a meeting point of the stabilization and the activation of molecular oxygen, Autoxidation of. By K. Shikama. **65**, 1990, 517–527
"Parareptiles", Historical burden in systematics and the interrelationships of. By M. S. Y. Lee. **70**, 1995, 459–547
Parasitism as an alternative reproductive tactic in nest-building wasps and bees, Intraspecific. By J. Field. **67**, 1992, 79–126
Parasitoids, Host-feeding strategies in hymenopteran. By M. A. Jervis & N. A. C. Kidd. **61**, 1986, 395–434
Pathogenicity, The revival of interest in mechanisms of bacterial. By H. Smith. **70**, 1995, 277–316
Patterns in the geographical ranges of species. By K. J. Gaston. **65**, 1990, 105–129
Penetration, Sperm thrusts and the problem of. By D. P. L. Green. **63**, 1988, 79–105
Periodicity and polarity as bases for morphogenesis in plants, Rhythm. By P. W. Barlow. **69**, 1994, 475–525
Pheromones and chemical ecology of locusts. By J. A. Byers. **66**, 1991, 347–378
Phosphonates as antifungal agents, The complex action of. By D. Guest & B. Grant. **66**, 1991, 159–187
Photopic vision, The cortical magnification factor and. By J. S. Pointer. **61**, 1986, 97–119
Photosynthesis, Light absorption by plants and its implications for. By B. A. Osborne & J. A. Raven. **61**, 1986, 1–61
Photosynthesizing and developing plant tissues, Symplasmic proton fluxes in. By J. A. Raven. **70**, 1995, 189–224

Phototrophs, The influence of natural and experimental high O_2 concentrations on O_2-evolving. By J. A. Raven, A. M. Johnston, R. Parsons & J. Kübler. **69**, 1994, 61–94
Phylogeny of hexapods, Ovariole types and the. By P. Stys & S. Biliński. **65**, 1990, 401–429
Phylogeny of the hexapoda and ovarian metamerism. By P. Stys, J. Zrzavy & F. Weyda. **68**, 1993, 365–379
The phytoalexin response: elicitation, signalling and control of host gene expression. By R. A. Dixon. **61**, 1986, 239–291
Phytoplankton, Antarctic aquatic ecosystems as habitats for. By J. Priddle, I. Hawes, J. C. Ellis-Evans & T. J. Smith. **61**, 1986, 199–238
Pinnipeds, Growth in. By I. A. McLaren. **68**, 1993, 1–79
A pivotal role for TGF-ß in atherogenesis? By D. J. Grainger & J. C. Metcalfe. **70**, 1995, 571–596
Plant breeding populations?, How frequent are superior genotypes in. By N. W. Simmonds. **64**, 1989, 341–365
Plant development: a critical analysis, Quantitative variations of nuclear DNA during. By P. Bassi. **65**, 1990, 185–225
Plant growth and development in molecular perspective. By D. E. Hathway. **65**, 1990, 473–515
Plant invasion windows: a time-based classification of invasion potential. By I. M. Johnstone. **61**, 1986, 369–394
Plant kingdom, Heterospory: the most iterative key innovation in the evolutionary history of the. By R. M. Bateman & W. A. Dimichele. **69**, 1994, 345–417
Plant pathogenic fungi, herbivorous insects and their host plants, Three-way interactions between. By P. E. Hatcher. **70**, 1995, 639–694
Plant pathogens and its relevance to a comprehension of the underlying mechanisms, A consideration of the genetic control of species specificity in fungal. By A. C. Newton & I. R. Crute. **64**, 1989, 35–50
Plant sporophyte: an interpolational scenario, The origin of the land. By A. R. Hemsley. **69**, 1994, 263–273
Plant storage proteins. By P. Shewry. **70**, 1995, 375–426
Plant tissues, Symplasmic proton fluxes in photosynthesizing and developing. By J. A. Raven. **70**, 1995, 189–224
Plants and its implications for photosynthesis, Light absorption by. By B. A. Osborne & J. A. Raven. **61**, 1986, 1–61
Plants as biomonitors, Biological assessment of aquatic pollution: a review, with emphasis on. By J. Lovett Doust, M. Schmidt & L. Lovett Doust. **69**, 1994, 147–186
Plants, Rhythm, periodicity and polarity as bases for morphogenesis in. By P. W. Barlow. **69**, 1994, 475–525
Pollution: a review, with emphasis on plants as biomonitors, Biological assessment of aquatic. By J. Lovett Doust, M. Schmidt & L. Lovett Doust. **69**, 1994, 147–186
Poly(ADP-ribosylation) processing and polyisoprene metabolism, New targets for cancer chemotherapy. By T. Alderson. **65**, 1990, 623–641
Polychaeta (Annelida): an ultrastructural review, The spermatozoa of the. By B. G. M. Jamieson & G. W. Rouse. **64**, 1989, 93–157
Population cycles in northern small mammals. By K. Norrdahl. **70**, 1995, 621–637
Potential mechanisms of sex ratio adjustment in mammals and birds. By S. Krackow. **70**, 1995, 225–241
Predator vigilance and group size in mammals and birds: a critical review of the empirical evidence. By M. A. Elgar. **64**, 1989, 13–33
Programmed cell death: concept, mechanism and control. By S. Sen. **67**, 1992, 287–319
Progress and competition in macroevolution. By M. J. Benton. **62**, 1987, 305–338
Protein conformation changes and transphosphorylations in the function of Na^+/K^+-transporting adenosine triphosphatase: an attempt at an integration into the Na^+/K^+ pump mechanism, Role of. By K. R. H. Repke & R. Schön. **67**, 1992, 31–78
Proteins, Plant storage. By P. Shewry. **70**, 1995, 375–426
Proton fluxes in photosynthesizing and developing plant tissues, Symplasmic. By J. A. Raven. **70**, 1995, 189–224
Protozoa: overlap of asexual and sexual cycles during conjugation, Development heterochrony in ciliated. By S. F. Ng. **65**, 1990, 19–101
Pterosaurs and their manner of flight, with notes on vortex wakes, On the reconstruction of. By C. J. Pennycuick. **63**, 1988, 299–331
Puberty, The biology of. By F. H. Bronson & E. F. Rissman. **61**, 1986, 157–195
Purine nucleotide cycle in animal tissues, Operation of the. by A. van Waarde. **63**, 1988, 259–298
Quantitative variations of nuclear DNA during plant development: a critical analysis. By P. Bassi. **65**, 1990, 185–225
Regeneration in the vertebrate central nervous system: phylogeny, ontogeny, and mechanisms. By A. J. Larner, A. R. Johnson & R. J. Keynes. **70**, 1995, 597–619
The regulation of alternation of generation in flowering plants. By H. G. Dickinson. **69**, 1994, 419–442
The relative importance of short- and long-range movement of flying aphids. By H. D. Loxdale, J. Hardie, S. Halbert, R. Foottit, N. A. C. Kidd & C. I. Carter. **68**, 1993, 291–311
Reproductive mechanisms in fossil dasyclads (Algae: Chlorophyta), The evidence of. By G. F. Elliott. **64**, 1989, 269–275
Reproductive tactic in nest-building wasps and bees, Intraspecific parasitism as an alternative. By J. Field. **67**, 1992, 79–126
Resistance to diseases of crops, Genetics of horizontal. By N. W. Simmonds. **66**, 1991, 189–241
Respiratory chain in mitochondria and cells, Control of electron flux through the. By M. D. Brand & M. P. Murphy. **62**, 1987, 141–193
The revival of interest in mechanisms of bacterial pathogenicity. By H. Smith. **70**, 1995, 277–316
Rhizomorphic lycopsids: scenarios constructed on cladistic foundations, Evolutionary-developmental change in the growth architecture of fossil. By R. M. Bateman. **69**, 1994, 527–597
Rhythm, periodicity and polarity as basis for morphogenesis in plants. By P. W. Barlow. **69**, 1994, 475–525
Ribonucleotide metabolism – fresh approaches to viral and cancer chemotherapy. By T. Alderson. **64**, 1989, 159–196
The role of heterochrony in the evolution of Cambrian trilobites. By K. J. McNamara. **61**, 1986, 121–156
The role of metabolism and calcium in the control of mitosis and ooplasmic movements in insect eggs: a working hypothesis. By J. M. van der Meer. **63**, 1988, 109–157
Role of protein conformation changes and transphosphorylations in the function of Na^+/K^+-transporting adenosine triphosphatase: an attempt at an integration into the Na^+/K^+ pump mechanism. By K. R. H. Repke & R. Schön. **67**, 1992, 31–78
The roles of seasonality, host synchrony and behaviour in the evolution and distributions of nest parasites in Hymenoptera

(Insecta), with special reference to bees (Apoidea). By W. T. Wcislo. **62**, 1987, 515–543
Salmonid fishes, The chromosomes of. By S. E. Hartley. **62**, 1987, 197–214
Samara, Study of the vertical autorotation of a single-winged. By D. Seter & A. Rosen. **67**, 1992, 175–197
Scale-dependent spatial dynamics: marine birds in the Bering sea. By D. C. Schneider. **68**, 1993, 579–598
Seasonality, host synchrony and behaviour in the evolution and distributions of nest parasites in Hymenoptera (Insecta), with special reference to bees (Apoidea), The roles of. By W. T. Wcislo. **62**, 1987, 515–543
Second messengers and the regulation of Ca^{2+} fluxes by Ca^{2+}-mobilizing agonists in rat liver. By J. G. Altin & F. L. Bygrave. **63**, 1988, 551–611
Senescence, Age-related alterations in human chromosome composition and DNA content *in vitro* during. By S. Sen, G. Talukder & A. Sharma. **62**, 1987, 25–44
Sensitive plants, Structural and ultrastructural features of cortical cells in motor organs of. By P. Fleurat-Lessard. **63**, 1988, 1–22
Sex chromosomes, The evolution of heteromorphic. By E. Jablonka & M. J. Lamb. **65**, 1990, 249–276
Sex determination and sex differentiation in malaria parasites. By A. W. C. A. Cornelissen. **63**, 1988, 379–394
Sex determination in animals, Sex ratios and conditions required for environmental. By H. Korpelainen. **65**, 1990, 147–184
Sex determination in Crustacea. By J. J. Legrand, E. Legrand-Hamelin & P. Juchault. **62**, 1987, 439–470
Sex ratio adjustment in mammals and birds, Potential mechanisms of. By S. Krackow. **70**, 1995, 225–241
Sex ratio distorters in animals, The incidences, mechanisms and evolution of cytoplasmic. By L. D. Hurst. **68**, 1993, 121–194
Sex ratios and conditions required for environmental sex determination in animals. By H. Korpelainen. **65**, 1990, 147–184
Sexual dimorphism in size in monogamous species of birds, The evolution of reversed. By H. C. Mueller. **65**, 1990, 553–585
Sexual morphogenesis in the Ascomycotina, The control of. By P. S. Dyer, D. S. Ingram & K. Johnstone. **67**, 1992, 421–458
Sexual selection, honest advertisement and the handicap principle: reviewing the evidence. By R. A. Johnstone. **70**, 1995, 1–65
Signalling and control of host gene expression, The phytoalexin response: elicitation. By R. A. Dixon. **61**, 1986, 239–291
The singer and the song: on the receiving end of bird song. By P. K. McGregor. **66**, 1991, 57–81
Skeletogenic and odontogenic tissues, Development and evolutionary origins of vertebrate. By M. M. Smith & B. K. Hall. **65**, 1990, 277–373
Small mammals, Population cycles in northern. By K. Norrdahl. **70**, 1995, 621–637
Snakes (Reptilia: Ophidia), The striped colour pattern and striped/non-striped polymorphism in. By M. Wolf & Y. L. Werner. **69**, 1994, 599–610
Snakes, Ecology and physiology of hibernation and overwintering among freshwater fishes, turtles and. By G. R. Ultsch. **64**, 1989, 435–516
Social behaviour, Of mice and kin: the functional significance of kin bias in. By C. J. Barnard, J. L. Hurst & P. Aldhous. **66**, 1991, 379–430
Social insects, Chemical communication in insect communities: a guide to insect pheromones with special emphasis on. By M. F. Ali & E. D. Morgan. **65**, 1990, 227–247
Social learning in animals: categories and mechanisms. By C. M. Heyes. **69**, 1994, 207–231
Soil, A comparative assessment of factors which influence microbial biomass carbon and nitrogen levels in. By D. A. Wardle. **67**, 1992, 321–358
Solutes in fungi, Translocation of. By D. H. Jennings. **62**, 1987, 215–243
Spatial dynamics: marine birds in the Bering sea, Scale-dependent. By D. C. Schneider. **68**, 1993, 579–598
Spatial position in groups, Differential fitness returns in relation to. By J. Krause. **69**, 1994, 187–206
Sperm competition, The evolution of eutherian spermatozoa and underlying selective forces: female selection and. By E. R. S. Roldan, M. Gomendio & A. D. Vitullo. **67**, 1992, 551–593
Sperm thrusts and the problem of penetration. By D. P. L. Green. **63**, 1988, 79–105
The spermatozoa of the Polychaeta (Annelida): an ultrastructural review. By B. G. M. Jamieson & G. W. Rouse. **64**, 1989, 93–157
Spiders, The origin of the spinning apparatus in. By J. W. Shultz. **62**, 1987, 89–113
Sporophyte: an interpolation scenario, The origin of the land plant. By A. R. Hemsley. **69**, 1994, 263–273
Stages in the origin of vertebrates: analysis by means of scenarios. By C. Gans. **64**, 1989, 221–268
Stomata, The evolution of vascular plants in relation to quantitative functioning of dead water-conducting cells and. By J. A. Raven. **68**, 1993, 337–363
Storage proteins, Plant. By P. Shewry. **70**, 1995, 375–426
Stress, extinctions and evolutionary change: from living organisms to fossils. By P. A. Parsons. **68**, 1993, 313–333
Stress, Fluctuating asymmetry: an epigenetic measure of. By P. A. Parsons. **65**, 1990, 131–145
The striped colour pattern and striped/non-striped polymorphism in snakes (Reptilia: Ophidia). By M. Wolf & Y. L. Werner. **69**, 1994, 599–610
Structural and ultrastructural features of cortical cells in motor organs of sensitive plants. By P. Fleurat-Lessard. **63**, 1988, 1–22
Structure and development of the lateral line. By J. H. S. Blaxter. **62**, 1987, 471–514
Study of the vertical autoration of a single-winged samara. By D. Seter & A. Rosen. **67**, 1992, 175–197
Sunset and the orientation behaviour of migrating birds. By F. R. Moore. **62**, 1987, 65–86
Suspension feeding in gastropods, The evolution of. By C. H. Declerck. **70**, 1995, 549–569
Symbiosis in insects, Mycetocyte. By A. E. Douglas. **64**, 1989, 409–434
Symplasmic proton fluxes in photosynthesizing and developing plant tissues. By J. A. Raven. **70**, 1995, 189–224
Systematics and the interrelationships of "parareptiles", Historical burden in. By M. S. Y. Lee. **70**, 1995, 459–547
Tardigrada, Cryptobiosis in. By J. C. Wright, P. Westh & H. Ramløv. **67**, 1992, 1–29
The taxonomy of European vascular plants: a review of the past half-century and the influence of the Flora Europaea Project. By S. M. Walters. **70**, 1995, 361–374

Termites, Evolution of monogamy in. By C. A. Nalepa & S. C. Jones. **66**, 1991, 83–97
Territorial behaviour, Experiments on the limitation of bird numbers by. By I. Newton. **67**, 1992, 129–173
Tetrapods, Character diagnosis, fossils and the origin of. By A. L. Panchen & T. R. Smithson. **62**, 1987, 341–438
TGF-ß in atherogenesis?, A pivotal role for. By D. J. Grainger & J. C. Metcalfe. **70**, 1995, 571–596
Three-way interactions between plant pathogenic fungi, herbivorous insects and their host plants. By P. E. Hatcher. **70**, 1995, 639–694
Topographic biology, Cell adhesion molecules: a unifying approach to. By M. L. Turner. **67**, 1992, 359–377
Toxicity and biodegradability test methods, Treatability. By A. Kilroy & N. F. Gray. **70**, 1995, 243–275
Translocation of solutes in fungi. By D. H. Jennings. **62**, 1987, 215–243
Transphosphorylations in the function of Na^+/K^+-transporting adenosine triphosphatase: an attempt at an integration into the Na^+/K^+ pump mechanism, Role of protein conformation changes and. By K. R. H. Repke & R. Schön. **67**, 1992, 31–78
Treatability, toxicity and biodegradability test methods. By A. Kilroy & N. F. Gray. **70**, 1995, 243–275
Tribosphenic molars, Early trends in the evolution of. By P. M. Butler. **65**, 1990, 529–552
Trilobites, The role of heterochrony in the evolution of Cambrian. By K. J. McNamara. **61**, 1986, 121–156
Tumours, and its significance in diagnostic practice, Variability of neoplastic parameters in colon. By I. Zusman. **70**, 1995, 107–160
Turtles and snakes, Ecology and physiology of hibernation and overwintering among freshwater fishes. By G. R. Ultsch. **64**, 1989, 435–516
Ultradian rhythms, The occurrence and functions of. By D. Lloyd & M. Stupfel. **66**, 1991, 275–299
Variability of neoplastic parameters in colon tumours, and its significance in diagnostic practice. By I. Zusman. **70**, 1995, 107–160
Vascular plants: a review of the past half-century and the influence of the Flora Europaea Project, The taxonomy of European. By S. M. Walters. **70**, 1995, 361–374
Vascular plants in relation to quantitative functioning of dead water-conducting cells and stomata, The evolution of. By J. A. Raven. **68**, 1993, 337–363
Vegetation and climate: a global perspective, History of aridland. By G. Singh. **63**, 1988, 159–195
Vertebrate central nervous system: phylogeny, ontogeny, and mechanisms, Regeneration in the. By A. J. Larner, A. R. Johnson & R. J. Keynes. **70**, 1995, 597–619
Vertebrate phylogeny, Developmental processes, developmental sequences and early. By R. M. Langille & B. K. Hall. **64**, 1989, 73–91
Vertebrate skeletogenic and odontogenic tissues, Development and evolutionary origins of. By M. M. Smith & B. K. Hall. **65**, 1990, 277–273
Vertebrates: analysis by means of scenarios, Stages in the origin of. By C. Gans. **64**, 1989, 221–268
Vesicle techniques, Nutrient transport by the crustacean gastrointestinal tract: recent advances with. By G. A. Ahearn. **62**, 1987, 45–63
Viral and cancer chemotherapy, Ribonucleotide metabolism – fresh approaches to. By T. Alderson. **64**, 1989, 159–196
Vision, The cortical magnification factor and photopic. By J. S. Pointer. **61**, 97–119
Vortex wakes, On the reconstruction of pterosaurs and their manner of flight, with notes on. By C. J. Pennycuick. **63**, 1988, 299–331
Wasps and bees, Intraspecific parasitism as an alternative reproductive tactic in nest-building. By J. Field. **67**, 1992, 79–126
Water-conducting cells and stomata, The evolution of vascular plants in relation to quantitative functioning of dead. By J. A. Raven. **68**, 1993, 337–363
Waterfowl, The occurrence and adaptive significance of nocturnal habits in. By R. McNeil, P. Drapeau & J. D. Goss-Custard. **67**, 1992, 381–419
Wild mice in the cold: some findings on adaptation. By S. A. Barnett & R. G. Dickson. **64**, 1989, 317–340

Index of Authors

AHEARN, G. A. Nutrient transport by the crustacean gastrointestinal tract: recent advances with vesicle techniques. **62**, 1987, 45–63

ALDERSON, T. Ribonucleotide metabolism – fresh approaches to viral and cancer chemotherapy. **64**, 1989, 159–196

ALDERSON, T. New targets for cancer chemotherapy – poly-(ADP-ribosylation) processing and polyisoprene metabolism. **65**, 1990, 623–641

ALDERSON, T. New directions for the anti-retroviral chemotherapy of AIDS – a basis for a pharmacological approach to treatment. **68**, 1993, 265–289

ALDHOUS, P. *See* BARNARD, C. J.

ALI, M. F. & MORGAN, E. D. Chemical communication in insect communities: a guide to insect pheromones with special emphasis on social insects. **65**, 1990, 227–247

ALTIN, J. G. & BYGRAVE, F. L. Second messengers and the regulation of Ca^{2+} fluxes by Ca^{2+}-mobilizing agonists in rat liver. **63**, 1988, 551–611

ATCHLEY, W. R. & HALL, B. K. A model for development and evolution of complex morphological structures. **66**, 1991, 101–157

BARLOW, P. W. Rhythm, periodicity and polarity as bases for morphogenesis in plants. **69**, 1994, 475–525

BARNARD, C. J., HURST, J. L. & ALDHOUS, P. Of mice and kin: the functional significance of kin bias in social behaviour. **66**, 1991, 379–430

BARNETT, S. A. & DICKSON, R. G. Wild mice in the cold: some findings on adaptation. **64**, 1989, 317–340

BASSI, P. Quantitative variations of nuclear DNA during plant development: a critical analysis. **65**, 1990, 185–225

BATEMAN, R. M. Evolutionary-developmental change in the growth architecture of fossil rhizomorphic lycopsids: scenarios constructed on cladistic foundations. **69**, 1994, 527–597

BATEMAN, R. M. & DIMICHELE, W. A. Heterospory: the most iterative key innovation in the evolutionary history of the plant kingdom. **69**, 1994, 345–417

BAX, B. E. *See* ZAIDI, M.

BAX, C. M. R. *See* ZAIDI, M.

BELL, P. R. Introduction (to special issue: The regulation of alternation of generations in plants). **69**, 1994, 259–262

BENTON, M. J. Progress and competition in macroevolution. **62**, 1987, 305–338

BERRY, R. J. & BRONSON, F. H. Life history and bioeconomy of the house mouse. **67**, 1992, 519–550

BERTRAM, J. E. A. & SWARTZ, S. M. The 'law of bone transformation': a case of crying Wolff? **66**, 1991, 245–273

BEVIS, P. J. R. *See* ZAIDI, M.

BILIŃSKI, S. *See* STŸS, P.

BISHOP, J. D. D. Colony form and the exploitation of spatial refuges by encrusting Bryozoa. **64**, 1989, 197–218

BLAKE, D. R. *See* ZAIDI, M.

BLAXTER, J. H. S. Structure and development of the lateral line. **62**, 1987, 471–514

BLOCK, W. *See* CANNON, R. J. C.

BOARD, R. G. *See* BOND, G. M.

BOLHUIS, J. J. Mechanisms of avian imprinting: a review. **66**, 1991, 303–345

BOND, G. M., BOARD, R. G. & SCOTT, V. D. An account of the hatching strategies of birds. **63**, 1988, 395–415

BRAND, M. D. & MURPHY, M. P. Control of electron flux through the respiratory chain in mitochondria and cells. **62**, 1987, 141–193

BRONSON, F. H. *See* BERRY, R. J.

BRONSON, F. H. & RISSMAN, E. F. The biology of puberty. **61**, 1986, 157–195

BUTLER, P. M. Early trends in the evolution of tribosphenic molars. **65**, 1990, 529–552

BYERS, J. A. Pheromones and chemical ecology of locusts. **66**, 1991, 347–378

BYGRAVE, F. L. *See* ALTIN, J. G.

CANNON, R. J. C. & BLOCK, W. Cold tolerance of microarthropods. **63**, 1988, 23–77

CARTER, C. I. *See* LOXDALE, H. D.

CONNOR, R. C. The benefits of mutualism: a conceptual framework. **70**, 1995, 427–457

CORNELISSEN, A. W. C. A. Sex determination and sex differentiation in malaria parasites. **63**, 1988, 379–394

CRUTE, I. R. *See* NEWTON, A. C.

DECLERCK, C. H. The evolution of suspension feeding in gastropods. **70**, 1995, 549–569

DICKINSON, H. G. The regulation of alternation of generation in flowering plants. **69**, 1994, 419–442

DICKSON, R. G. *See* BARNETT, S. A.

DIMICHELE, W. A. *See* BATEMAN, R. M.

DIXON, R. A. The phytoalexin response: elicitation, signalling and control of host gene expression. **61**, 1986, 239–291

DOLJANSKI, F. *See* ETTINGER, L.

DOUGLAS, A. E. Mycetocyte symbiosis in insects. **64**, 1989, 409–434

DRAPEAU, P. *See* MCNEIL, R.

DUNNETT, S. B. & ROBBINS, T. W. The functional role of mesotelencephalic dopamine systems. **67**, 1992, 491–518

DYER, P. S., INGRAM, D. S. & JOHNSTONE, K. The control of sexual morphogenesis in the Ascomycotina. **67**, 1992, 421–458

EBERHARD, W. G. Copulatory courtship and cryptic female choice in insects. **66**, 1991, 1–31

EDWARDS, A. W. F. Are Mendel's results really too close? **61**, 1986, 295–312

EDWARDS, A. W. F. The fundamental theorem of natural selection. **69**, 1994, 443–474

ELGAR, M. A. Predator vigilance and group size in mammals and birds: a critical review of the empirical evidence. **64**, 1989, 13–33

ELLIOTT, G. F. The evidence of reproductive mechanisms in fossil dasyclads (Algae: Chlorophyta). **64**, 1989, 269–275

ELLIS-EVANS, J. C. *See* PRIDDLE, J.

ETTINGER, L. & DOLJANSKI, F. On the generation of form by the continuous interactions between cells and their extracellular matrix. **67**, 1992, 459–489

FIELD, J. Intraspecific parasitism as an alternative reproductive tactic in nest-building wasps and bees. **67**, 1992, 79–126

FINN, C. A. Implantation, menstruation and inflammation. **61**, 1986, 313–328

FITTER, A. H. *See* PEAT, H. J.

Fleurat-Lessard, P. Structural and ultrastructural features of cortical cells in motor organs of sensitive plants. **63**, 1988, 1–22

Fog, K. The effect of added nitrogen on the rate of decomposition of organic matter. **63**, 1988, 433–462

Foottit, R. *See* Loxdale, H. D.

Forsten, A. Horse diversity through the ages. **64**, 1989, 279–304

Fortelius, M. *See* Janis, C. M.

Gans, C. Stages in the origin of vertebrates: analysis by means of scenarios. **64**, 1989, 221–268

Gaston, K. J. Patterns in the geographical ranges of species. **65**, 1990, 105–129

Glynn, I. M. The evolution of consciousness: William James's unresolved problem. **68**, 1993, 599–616

Gomendio, M. *See* Roldan, E. R. S.

Goolish, E. M. Aerobic and anaerobic scaling in fish. **66**, 1991, 33–56

Goss-Custard, J. D. *See* McNeil, R.

Grainger, D. J. & Metcalfe, J. C. A pivotal role for TGF-β in atherogenesis? **70**, 1995, 571–596

Grant, B. *See* Guest, D.

Gray, N. F. Nematophagous fungi with particular reference to their ecology. **62**, 1987, 245–304

Gray, N. F. *See* Kilroy, A.

Green, D. P. L. Sperm thrusts and the problem of penetration. **63**, 1988, 79–105

Guest, D. & Grant B. The complex action of phosphonates as antifungal agents. **66**, 1991, 159–187

Gutman, A. *See* Kornblihtt, A. R.

Halbert, S. *See* Loxdale, H. D.

Hall, B. K. *See* Atchley, W. R.

Hall, B. K. *See* Langille, R. M.

Hall, B. K. *See* Smith, M. M.

Hardie, J. *See* Loxdale, H. D.

Hartley, S. E. The chromosomes of salmonid fishes. **62**, 1987, 197–214.

Hatcher, P. E. Three-way interactions between plant pathogenic fungi, herbivorous insects and their host plants. **70**, 1995, 639–694

Hathway, D. E. Herbicide selectivity. **61**, 1986, 435–486

Hathway, D. E. Plant growth and development in molecular perspective. **65**, 1990, 473–515

Hawes, I. *See* Priddle, J.

Hemsley, A. R. The origin of the land plant sporophyte: an interpolational scenario. **69**, 1994, 263–273

Hepper, P. G. Kin recognition: functions and mechanisms a review. **61**, 1986, 63–93

Heyes, C. M. Social learning in animals: categories and mechanisms. **69**, 1994, 207–231

Holehan, A. M. & Merry, B. J. The experimental manipulation of ageing by diet. **61**, 1986, 329–368

Holliday, R. Mechanisms for the control of gene activity during development. **65**, 1990, 431–471

Huang, C. L. H. *See* Zaidi, M.

Hurst, J. L. *See* Barnard, C. J.

Hurst, L. D. The incidences, mechanisms and evolution of cytoplasmic sex ratio distorters in animals. **68**, 1993, 121–194

Ingram, D. S. *See* Dyer, P. S.

Jablonka, E. & Lamb, M. J. The evolution of heteromorphic sex chromosomes. **65**, 1990, 249–276

Jacobs, G. H. The distribution and nature of colour vision among the mammals. **68**, 1993, 413–471

Jamieson, B. G. M. & Rouse, G. W. The spermatozoa of the Polychaeta (Annelida): an ultrastructural review. **64**, 1989, 93–157

Janis, C. M. & Fortelius, M. On the means whereby mammals achieve increased functional durability of their dentitions, with special reference to limiting factors. **63**, 1998, 197–230

Jennings, D. H. Translocation of solutes in fungi. **62**, 1987, 215–243

Jervis, M. A. & Kidd, N. A. C. Host-feeding strategies in hymenopteran parasitoids. **61**, 1986, 395–434

John, D. M. Alternation of generations in algae: its complexity, maintenance and evolution. **69**, 1994, 275–291

Johnson, A. R. *See* Larner, A. J.

Johnston, A. M. *See* Raven, J. A.

Johnstone, I. M. Plant invasion windows: a time-based classification of invasion potential. **61**, 1986, 369–394

Johnstone, K. *See* Dyer, P. S.

Johnstone, R. A. Sexual selection, honest advertisement and the handicap principle: reviewing the evidence. **70**, 1995, 1–65

Jones, S. C. *See* Nalepa, C. A.

Juchault, P. *See* Legrand, J. J.

Kenrick, P. Alternation of generation in land plants: new phylogenetic and palaeobotanical evidence. **69**, 1994, 293–330

Keynes, R. J. *See* Larner, A. J.

Kidd, N. A. C. *See* Jervis, M. A.

Kidd, N. A. C. *See* Loxdale, H. D.

Kilroy, A. & Gray, N. F. Treatability, toxicity, and biodegradability test methods. **70**, 1995, 243–275

Klein, R. M. Effects of green light on biological systems. **67**, 1992, 199–284

Kornblihtt, A. R. & Gutman, A. Molecular biology of the extracellular matrix proteins. **63**, 1988, 465–507

Korpelainen, H. Sex ratios and conditions required for environmental sex determination in animals. **65**, 1990, 147–184

Krackow, S. Potential mechanisms of sex ratio adjustment in mammals and birds. **70**, 1995, 225–241

Krause, J. Differential fitness returns in relation to spatial position in groups. **69**, 1994, 187–206

Kübler, J. *See* Raven, J. A.

Lamb, M. J. *See* Jablonka, E.

Langille, R. M. & Hall, B. K. Developmental processes, developmental sequences and early vertebrate phylogeny. **64**, 1989, 73–91

Larner, A. J., Johnson, A. R. & Keynes, R. J. Regeneration in the vertebrate central nervous system: phylogeny, ontogeny, and mechanisms. **70**, 1995, 597–619

Larsen, P. S. *See* Riisgård, H. U.

Lee, M. S. Y. Historical burden in systematics and the interrelationships of "parareptiles". **70**, 1995, 459–547

Legrand, J. J., Legrand-Hamelin, E. & Juchault, P. Sex determination in Crustacea. **62**, 1987, 439–470

Legrand-Hamelin, E. *See* Legrand, J. J.

Lele, S. *See* Richtsmeier, J. T.

Lloyd, D. & Stupfel, M. The occurrence and functions of ultradian rhythms. **66**, 1991, 275–299

Lloyd, D. & Rossi, E. L. Biological rhythms as organization and information. **68**, 1993, 563–577.

Lovett Doust, J., Schmidt, M. & Lovett Doust, L. Biological

assessment of aquatic pollution: a review, with emphasis on plants as biomonitors. **69**, 1994, 147–186
LOVETT DOUST, L. *See* LOVETT DOUST, J.
LOXDALE, H. D., HARDIE, J., HALBERT, S., FOOTTIT, R., KIDD, N. A. C. & CARTER, C. I. The relative importance of short- and long-range movement of flying aphids. **68**, 1993, 291–311
MAGRATH, R. D. Hatching asynchrony in altricial birds. **65**, 1990, 587–622
MARCHETTI, K. & PRICE, T. Differences in the foraging of juvenile and adult birds: the importance of developmental constraints. **64**, 1989, 51–70
MARTIN, F. Acritarchs: a review. **68**, 1993, 475–538
MATSUOKA, A. *See* SHIKAMA, K.
MCGREGOR, P. K. The singer and the song: on the receiving end of bird song. **66**, 1991, 57–81
MCINTOSH, R. P. H. A. Gleason's 'individualistic concept' and theory of animal communities: a continuing controversy. **70**, 1995, 317–357
MCLAREN, I. A. Growth in pinnipeds. **68**, 1993, 1–79
MCNAMARA, K. J. The role of heterochrony in the evolution of Cambrian trilobites. **61**, 1986, 121–156
MCNEIL, R., DRAPEAU, P. & GOSS-CUSTARD, J. D. The occurrence and adaptive significance of nocturnal habits in waterfowl. **67**, 1992, 381–419
MEDVEDEV, Z. A. An attempt at a rational classification of theories of ageing. **65**, 1990, 375–398
MENZEL, R. & SHMIDA, A. The ecology of flower colours and the natural colour vision of insect pollinators. **68**, 1993, 81–120
MERRY, B. J. *See* HOLEHAN, A. M.
METCALFE, J. C. *See* GRAINGER, D. J.
MICHAELSON, J. Cell selection in development. **62**, 1987, 115–139
MOONGA, B. S. *See* ZAIDI, M.
MOORE, F. R. Sunset and the orientation behaviour of migrating birds. **62**, 1987, 65–86
MORGAN, E. D. *See* ALI, M. F.
MUELLER, H. C. The evolution of reversed sexual dimorphism in size in monogamous species of birds. **65**, 1990, 553–585
MURPHY, M. P. *See* BRAND, M. D.
NALEPA, C. A. & JONES, S. C. Evolution of monogamy in termites. **66**, 1991, 83–97
NEWTON, A. C. & CRUTE, I. R. A consideration of the genetic control of species specificity in fugal plant pathogens and its relevance to a comprehension of the underlying mechanisms. **64**, 1989, 35–50
NEWTON, I. Experiments on the limitation of bird numbers by territorial behaviour. **67**, 1992, 129–173
NG, S. F. Developmental heterochrony in ciliated protozoa: overlap of asexual and sexual cycles during conjugation. **65**, 1990, 19–101
NORRDAHL, K. Population cycles in northern small mammals. **70**, 1995, 621–637
ORNOY, A. *See* ZUSMAN, I.
OSBORNE, B. A. & RAVEN, J. A. Light absorption by plants and its implications for photosynthesis. **61**, 1986, 1–61
PANCHEN, A. L. & SMITHSON, T. R. Character diagnosis, fossils and the origin of tetrapods. **62**, 1987, 341–438
PARSONS, P. A. Fluctuating asymmetry: an epigenetic measure of stress. **65**, 1990, 131–145
PARSONS, P. A. Stress, extinctions and evolutionary change: from living organisms to fossils. **68**, 1993, 313–333
PARSONS, R. *See* RAVEN, J. A.
PAZIANAS, M. *See* ZAIDI, M.
PEAT, H. J. & FITTER, A. H. Comparative analyses of ecological characteristics of British angiosperms. **69**, 1994, 95–115
PENNYCUICK, C. J. On the reconstruction of pterosaurs and their manner of flight, with notes on vortex wakes. **63**, 1988, 299–331
POINTER, J. S. The cortical magnification factor and photopic vision. **61**, 1986, 97–119
PRASAD, K. N. Differentiation of neuroblastoma cells: a useful model for neurobiology and cancer. **66**, 1991, 431–451
PRICE, T. *See* MARCHETTI, K.
PRIDDLE, J., HAWES, I., ELLIS-EVANS, J. C. & SMITH, T. J. Antarctic aquatic ecosystems as habitats for phytoplankton. **61**, 1986, 199–238
RAMLØV, H. *See* WRIGHT, J. C.
RAVEN, J. A. The evolution of vascular plants in relation to quantitative functioning of dead water-conducting cells and stomata. **68**, 1993, 337–363
RAVEN, J. A. Symplasmic proton fluxes in photosynthesizing and developing plant tissues. **70**, 1995, 189–224
RAVEN, J. A., JOHNSTON, A. M., PARSONS, R. & KÜBLER, J. The influence of natural and experimental high O_2 concentrations on O_2-evolving phototrophs. **69**, 1994, 61–94
RAVEN, J. A. *See* OSBORNE, B. A.
REGNAULT, M. Nitrogen excretion in marine and fresh-water Crustacea. **62**, 1987, 1–24
REPKE, K. R. H. & SCHÖN, R. Role of protein conformation changes and transphosphorylations in the function of Na^+/K^+-transporting adenosine triphosphatase: an attempt at an integration into the NA^+/K^+ pump mechanism. **67**, 1992, 31–78
REPKE, K. R. H. & SCHÖN, R. Synthesis of a self-contained concept of the molecular mechanism of energy interconversion by H^+-transporting ATP synthase. **69**, 1994, 119–145
RICHTSMEIER, J. T. & LELE, S. A coordinate-free approach to the analysis of growth patterns: models and theoretical considerations. **68**, 1993, 381–411
RIDLEY, M. Mating frequency and fecundity in insects. **63**, 1988, 509–549
RIISGÅRD, H. U. & LARSEN, P. S. Filter-feeding in marine macro-invertebrates: pump characteristics, modelling and energy cost. **70**, 1995, 67–106.
RISSMAN, E. F. *See* BRONSON, F. H.
ROBBINS, T. W. *See* DUNNETT, S. B.
ROLDAN, E. R. S., GOMENDIO, M. & VITULLO, A. D. The evolution of eutherian spermatozoa and underlying selective forces: female selection and sperm competition. **67**, 1992, 551–593
ROSEN, A. *See* SETER, D.
ROSSI, E. L. *See* LLOYD, D.
ROUSE, G. W. *See* JAMIESON, B. G. M.
RUPPERT, E. E. & SMITH, P. R. The functional organization of filtration nephridia. **63**, 1988, 231–258
SCHMIDT, M. *See* LOVETT DOUST, J.
SCHNEIDER, D. C. Scale-dependent spatial dynamics: marine birds in the Bering sea. **68**, 1993, 579–598
SCHÖN, R. *See* REPKE, K. R. H.
SCOTT, V. D. *See* BOND, G. M.
SEN, S. Programmed cell death: concept, mechanism and control. **67**, 1992, 287–319
SEN, S., TALUKDER, G. & SHARMA, A. Age-related alterations in human chromosome composition and DNA content *in vitro* during senescence. **62**, 1987, 25–44

Seter, D. & Rosen, A. Study of the vertical autorotation of a single-winged samara. **67**, 1992, 175–197
Sharma, A. *See* Sen, S.
Sheffield, E. Alternation of generations in ferns: mechanisms and significance. **69**, 1994, 331–343
Shewry, P. Plant storage proteins. **70**, 1995, 375–426
Shankar, V. S. *See* Zaidi, M.
Shikama, K. Autoxidation of oxymyoglobin: a meeting point of the stabilization and the activation of molecular oxygen. **65**, 1990, 517–527
Shikama, K. & Matsuoka, A. *Aplysia* myoglobin with unusual properties: another prototype in myoglobin and haemoglobin biochemistry. **69**, 1994, 233–251
Shmida, A. *See* Menzel, R.
Shultz, J. W. The origin of the spinning apparatus in spiders. **62**, 1987, 89–113
Simmonds, N. W. How frequent are superior genotypes in plant breeding populations? **64**, 1989, 341–365
Simmonds, N. W. Genetics of horizontal resistance to diseases of crops. **66**, 1991, 189–241
Simmonds, N. W. Introgression and incorporation. Strategies for the use of crop genetic resources. **68**, 1993, 539–562
Singh, G. History of aridland vegetation and climate: a global perspective. **63**, 1988, 159–195
Smith, D. W. E. Is greater female longevity a general finding among animals? **64**, 1989, 1–12
Smith, H. The revival of interest in mechanisms of bacterial pathogenicity. **70**, 1995, 277–316
Smith, M. M. & Hall, B. K. Development and evolutionary origins of vertebrate skeletogenic and odontogenic tissues. **65**, 1990, 277–373
Smith, P. R. *See* Ruppert, E. E.
Smith, T. J. *See* Priddle, J.
Smithson, T. R. *See* Panchen, A. L.
Somme, L. Adaptations of terrestrial arthropods to the alpine environment. **64**, 1989, 367–407
Stevens, C. *See* Zaidi, M.
Stuart, A. J. Mammalian extinctions in the late Pleistocene of northern Eurasia and North America. **66**, 1991, 453–562
Stupfel, M. *See* Lloyd, D.
Stys, P. & Biliński, S. Ovariole types and the phylogeny of hexapods. **65**, 1990, 401–429
Stys, P., Zrzavy, J. & Weyda, F. Phylogeny of the hexapoda and ovarian metamerism. **68**, 1993, 365–379
Swartz, S. M. *See* Bertram, J. E. A.
Talukder, G. *See* Sen, S.
Taplin, L. E. Osmoregulation in crocodilians. **63**, 1988, 337–377
Towhidul Alam, A. S. M. *See* Zaidi, M.
Turner, M. L. Cell adhesion molecules: a unifying approach to topographic biology. **67**, 1992, 359–377
Ultsch, G. R. Ecology and physiology of hibernation and overwintering among freshwater fishes, turtles and snakes. **64**, 1989, 435–516
Van Der Meer, J. M. The role of metabolism and calcium in the control of mitosis and ooplasmic movements in insect eggs: a working hypothesis. **63**, 1988, 109–157
Van Waarde, A. Operation of the purine nucleotide cycle in animal tissues. **63**, 1988, 259–298
Veenstra, J. A. Do insects really have a homeostatic hypotrehalosaemic hormone? **64**, 1989, 305–316
Vitullo, A. D. *See* Roldan, E. R. S.
Walters, S. M. The taxonomy of European vascular plants: a review of the past half-century and the influence of the Flora Europaea Project. **70**, 1995, 361–374
Wardle, D. A. A comparative assessment of factors which influence microbial biomass carbon and nitrogen levels in soil. **67**, 1992, 321–358
Wcislo, W. T. The roles of seasonality, host synchrony and behaviour in the evolutions and distributions of nest parasites in Hymenoptera (Insecta), with special reference to bees (Apoidea). **62**, 1987, 515–543
Werner, Y. L. *See* Wolf, M.
Westh, P. *See* Wright, J. C.
Weyda, F. *See* Stys, P.
Wharton, D. A. Cold tolerance strategies in nematodes. **70**, 1995, 161–185
Wieser, W. Cost of growth in cells and organisms: general rules and comparative aspects. **69**, 1994, 1–33
Wigglesworth, V. B. Histological staining of lipids for the light and electron microscope. **63**, 1988, 417–431
Williams, T. D. Intraspecific variation in egg size and egg composition in birds: effects on offspring fitness. **69**, 1994, 35–59
Wolf, M. & Werner, Y. L. The striped colour pattern and striped/non-striped polymorphism in snakes (Reptilia: Ophidia). **69**, 1994, 599–610
Wright, J. C., Westh, P. & Ramløv, H. Cryptobiosis in Tardigrada. **67**, 1992, 1–29
Zaidi, M., Towhidul Alam, A. S. M., Shankar, V. S., Bax, B. E., Bax, C. M. R., Moonga, B. S., Bevis, P. J. R., Stevens, C., Blake, D. R., Pazianas, M. & Huang, C. L. H. Cellular biology of bone resorption. **68**, 1993, 197–264
Zrzavy, J. *See* Stys, P.
Zusman, I. Variability of neoplastic parameters in colon tumours, and its significance in diagnostic practice. **70**, 1995, 107–160
Zusman, I. & Ornoy, A. Embryonic resistance to chemical and physical factors: manifestation, mechanism, role in reproduction and in adaptation to ecology. **65**, 1990, 1–18